

**SUMMARY OF THE
PROGRAM POLICY AND STRUCTURE COMMITTEE MEETING
DECEMBER 06, 2001**

The Program Policy and Structure Committee of the National Environmental Laboratory Accreditation Conference (NELAC) met on Thursday, December 06, 2001 at 1:30 p.m. Eastern Standard Time (EST) as part of the Seventh NELAC Interim Meeting in Arlington, VA. The meeting was led by its chair, Dr. Kenneth Jackson of the New York State Department of Health. A list of action items is given in Attachment A. A list of participants is given in Attachment B. The purpose of the meeting was to address items of importance as identified in the committee's previously distributed agenda.

INTRODUCTION

Dr. Kenneth Jackson began the meeting by welcoming the attendees and explaining that an additional item had been added to the agenda, the proposed changes to the Constitution and Bylaws. He then had the Committee members introduce themselves, after which the ground rules were reviewed.

ANALYTE GROUPS

Dr. Jackson opened discussion by pointing out that some time ago there had been a proposal to accredit by groups of analytes, as well as by individual analytes. Since this topic had been discussed during the morning Proficiency Testing (PT) session, he invited a member of the PT Committee to summarize the results of their discussions. RaeAnn Haynes explained that a presentation had been given, focusing on the three groups involved in this issue: Laboratories, Accrediting Authorities (AA), and PT providers. Accreditation by analyte group may be beneficial to laboratories in those cases where regulatory requirements specify analysis of a group of analytes, and the loss of accreditation for just one analyte would prevent the laboratory from analyzing the group. The NELAC standards, however require a lab to pass two out of three PT's per analyte, so AA's would continue to be required to track individual analyte performance. Therefore, it had been the consensus in the PT session to accredit by individual analyte and not by analyte group.

It was suggested that perhaps one way a lab can deal with the situation wherein they wish to pursue a volatile group analysis, and they are decertified for one of the analytes, is that they could simply note on the report that that particular analyte is not NELAC accredited. It was asked how the AA's would react to this situation. Ms. Haynes responded that this scenario will not work in every state. In Oregon, Standards require that when the labs are not NELAC accredited for some fields of testing, they make sure it is noted on their report. NELAP allows them to report analytes they are not accredited for as long as it is clear that they are not accredited for those analytes. It is up to the regulatory agency to say that is not acceptable. Dr. Jackson responded that New York law requires a lab to be accredited in New York in order to do business in that state. Therefore, if a lab loses an analyte through PT failure, the lab is not allowed to test for that analyte until it is recovered. It was pointed out that Florida regulations state that all data given to the state for evaluation must be NELAC accredited. Kansas, like Florida, is also required by state statute to certify labs for providing Clean Water, Drinking Water, and RCRA compliance data. Kansas cannot stop a lab from testing

an individual well and sending in a report, but it doesn't permit it done with a NELAC logo. New Jersey states you cannot misrepresent yourself as an accredited laboratory in any way.

Further discussion ensued regarding analytes versus analyte groups. Dr. Jackson responded that the Committee had considered all arguments and as a committee, could not find any real advantage to accrediting by analyte groups. The Accrediting Authorities, as they have to track by analyte anyway, don't see any value in analyte groups. However, if anyone can produce a convincing argument, in writing, for accrediting by analyte groups, the Committee will reconsider its position and put it into the Standard and propose it for the vote. In the absence of such a convincing, written argument, this Committee will proceed with analytes rather than analyte groups.

DATA INTEGRITY PROGRAM

Art Burton reviewed the history of the Data Integrity Plan, in which the American Council of Independent Laboratories (ACIL) Board perceived a need that stronger language would be needed in respect to ethics, ethics training in laboratories, ethics statements, and ethics agreements signed by management and all staff. These types of system approaches to the important issues of ethics and ethical performance in laboratories is something that is not currently in place in NELAC, but should be. A Data Integrity Task Force was formed in March, 2001, comprised of: Jack Farrell, Jerry Parr, Chuck Wibby, Bob Wyeth, Art Burton, Jackie Sample, Nancy Wentworth, Mike Wood, and John Pavelich. This Task Force has been working on writing proposed language to be inserted into Chapter 5. The Quality Systems Committee will be reviewing this Plan in the near future. As this is not a Program Policy and structure project, Dr. Jackson recommended that all comments regarding this Plan be addressed to the Quality Systems Committee.

FIELDS OF ACCREDITATION TABLES

Dr. Jackson presented the Fields of Accreditation Tables, which have been compiled for informational purposes only, and will not be voted on nor made part of the Standards. They will, however, be posted on the NELAC website. (See attached for complete details.) These Tables have not yet been completed, with Microbiology, Radiochemistry, and a fourth column including codes yet to be added. Dr. Jackson would welcome any input and comments, and asked that such be forwarded to him in writing.

PROPOSED CHANGES TO THE CONSTITUTION AND BYLAWS

Dr. Jackson updated the Committee on the recent events regarding the restructuring of NELAC into two bodies: the Standards Development Group and the Standards Adoption Group. The Constitution and Bylaws for the Standards Adoption Group would, therefore, have to have all references to the private sector involvement removed. The recent EPA requirement that Indian Tribes are required to be recognized will have to be included.

Constitution:

- Articles I and III will need inclusion of Indian Tribes
- Article IV, Section 2.B.1. will need to have reference to contributors deleted
- Article VI B. may need to be deleted as it refers to the Interim Meeting
- Articles VII and VIII may need all references to the Interim Meeting changed

Bylaws:

- Article II, Section 2, which is indicated as reserved, will need to be revised
- Article VI, Sections 1, 2, 3, and 5 need to have any reference to contributors deleted
- Article VII will need inclusion of Indian Tribes
- Chart showing seating will have reference to Contributors changed, and Indian Tribes added

Dr. Jackson then opened discussion to the floor. In response to comments regarding Indian Tribe representation, Lara Autry suggested a possibility that the individual tribes would sit with the other delegates in the House of Delegates. In the House of Representatives, they could elect to be represented by the governor's representative from each state in which they live. Joe Aiello was concerned regarding the issue of how recognized AA's can get more influence in the voting procedures. Some suggestions were to change the voting structure; create a UN model; constitute Accrediting Authorities Work Group into a voting group; and create two houses, one of recognized AA's, the other of all other governmental personnel.

ADJOURNMENT

There being no further comments from the floor, the meeting was adjourned.

ACTION ITEMS

**PROGRAM POLICY AND STRUCTURE COMMITTEE MEETING
DECEMBER 06, 2001**

Item No.	Action	Date to be Completed
1.	Constitution: <ul style="list-style-type: none">Articles I and III will need inclusion of Indian TribesArticle IV, Section 2.B.1. will need to have reference to contributors deletedArticle VI B. may need to be deleted as it refers to the Interim MeetingArticles VII and VIII may need all references to the Interim Meeting changed	ASAP
2.	Bylaws: <ul style="list-style-type: none">Article II, Section 2, which is indicated as reserved, will need to be revisedArticle VI, Sections 1, 2, 3, and 5 need to have any reference to contributors deletedArticle VII will need inclusion of Indian TribesChart showing seating will have reference to Contributors changed, and Indian Tribes added	ASAP

PARTICIPANTS
PROGRAM POLICY AND STRUCTURE COMMITTEE MEETING
DECEMBER 06, 2001

Name	Affiliation	Address
Dr. Kenneth Jackson, Chair	New York State Dept. of Health	T: (518)485-5570 F: (518)485-5568 E: jackson@wadsworth.org
Joseph Aiello	New Jersey Dept. of Environmental Protection-OQA	T: (609)633-3950 F: (609)777-1774 E: jaiello@dep.state.nj.us
Clifford Annis (Absent)	Merck and Co. Inc.	T: (215)652-8118 F: (215)652-2291 E: clifford_annis@merck.com
Lara Autry	USEPA/OAQPS	T: (919)541-5544 F: (919)541-2357 E: autry.lara@epa.gov
Arthur Burton	Sequoia Analytical Laboratory	T: (408)782-8167 F: (408)782-6308 E: aburton@sequoialabs.com
Andrew Eaton	MWH Laboratories	T: (626)568-6425 F: (626)568-6324 E: andrew.eaton@mwhglobal.com
Barbara Giesler (Absent)	New Mexico Environment Dept (NMED)	T: (505)827-0152 F: (505)827-0160 E: barbara_giesler@nmenv.state.nm.us
Mary Ann Hogan (Absent)	Crystal Clear Ltd.	T: (302)655-8659 F: (302)655-8519 E: mahogan2@home.com
Ann Rosecrance (Absent)	Core Laboratories	T: (713)328-2209 F: (713)328-2157 E: arosecrance@corelab.com
Elaine Sorbet	Louisiana Dept. of Environmental Quality	T: (225)765-2406 F: (225)765-2408 E: elaines@deq.state.la.us
Gabrielle Porath (Contractor Support)	Anteon Corporation	T: (702)731-4150 F: (702)731-4027 E: gporath@anteon.com

**NELAC 7i, December 4-7, 2001
DRAFT FIELDS OF ACCREDITATION TABLES**

The attached draft tables will be discussed during the program Policy and Structure Session on Thursday, December 6, 2001.

It is the intent to publish the tables, for informational purposes, after NELAC 8. Meanwhile, comments and corrections are requested. Please raise any issues during the committee's session on Thursday, or send an e-mail to Ken Jackson (Jackson@wadsworth.org). Please note the following:

1. Equivalent methods, in a Field of Accreditation, are listed to facilitate Accrediting Authorities' recognition.
2. The acronyms used in the "Technology Key" may not always be those in general use. Any suggestions to change these are welcome.

It is projected that eventually the tables will have a fourth column, listing a unique alphanumeric code for every Field of Accreditation.

Technology key

Amp	Amperometric titration
ASV	Anodic stripping voltammetry
Color	Ultraviolet or visible molecular absorption spectrometry
Cond	Conductance
CVAAS	Cold vapor atomic absorption spectrometry
DCP-AES	Direct current plasma atomic emission spectrometry
DPP	Differential pulse polarography
FAAS	Flame atomic absorption spectrometry
FAES	Flame atomic emission spectrometry
Fluor	Ultraviolet or visible molecular fluorescence spectrometry
Galv	Galvanic probe
GC-EC	Gas chromatography – Electrolytic conductivity
GC-ECD	Gas chromatography – Electron capture detection
GC-ELCD	Gas chromatography – Electrolytic conductivity detection
GC-FID	Gas chromatography – Flame ionization detection
GC-FTIR	Gas chromatography – Fourier transform infrared spectrometric detection
GC-HRMS	Gas chromatography – High resolution mass spectrometric detection
GC-MS	Gas chromatography – Mass spectrometric detection
GC-NPD	Gas chromatography – Nitrogen/phosphorus detector
GC-PID	Gas chromatography – Photoionization detection
GFAAS	Graphite furnace atomic absorption spectrometry
Grav	Gravimetry
HGAAS	Hydride generation atomic absorption spectrometry
HPLC-EC	High performance liquid chromatography – electrochemical detection
HPLC-UV	High performance liquid chromatography – ultraviolet/visible molecular absorption detection
HPLC-PBMS	High performance liquid chromatography –Particle beam mass spectrometric detection
HPLC-Fluor	High performance liquid chromatography – Ultraviolet or visible molecular fluorescence spectrometric detection
HPLC-TSMS	High performance liquid chromatography –Thermospray mass spectrometric detection
IC	Ion chromatography
ICP-AES	Inductively-coupled plasma atomic emission spectrometry
ICP-MS	Inductively-coupled plasma mass spectrometry
IR	Infrared spectrometry
NAA	Neutron activation analysis
Pol	Polarographic probe
Pot	Potentiometry (ion-selective electrode)
TEM	Transmission electron microscopy
Titr	Titrimetry (visual indicator)
XRF	X-ray fluorescence spectrometry

Fields of Accreditation - organics

Fields of Accreditation (Matrix – Technology/Method – Analyte/Analyte group) listed below are based on those currently offered by NELAP Accrediting Authorities, and may not be a complete listing. EPA and state regulations limit the application of specific methods to specific matrices. Accrediting Authorities may deem methods equivalent as indicated (“=”) in the table.

* The specific analytes in an analyte group are yet to be defined.

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> *
Drinking Water	GC-MS/EPA 524.2	Volatile Organics
Drinking Water	GC-PID+EC/EPA 502.2	Volatile Organics
Non-Potable Water	GC-MS/EPA 624 = SM 6210B	Volatile Organics
Non-Potable Water	GC-MS/EPA 1624	Volatile Organics
Non-Potable Water	GC-MS/EPA 1666	Volatile Organics
Non-Potable Water	GC-FID/EPA 1671	Volatile Organics
Non-Potable Water	GC-MS/EPA 8260	Volatile Organics
Solid & Chemical Materials	GC-MS/EPA 8260	Volatile Organics
Non-Potable Water	GC-FID/EPA 8015	Volatile Organics
Solid & Chemical Materials	GC-FID/EPA 8015	Volatile Organics
Non-Potable Water	GC-PID/EPA 602 = SM 6220B	Volatile Aromatics
Non-Potable Water	GC-ELCD/EPA 601 = SM 6230B	Volatile Halocarbons
Non-Potable Water	GC-ELCD/EPA 8021	Volatile Halocarbons
Solid & Chemical Materials	GC-ELCD/EPA 8021	Volatile Halocarbons
Non-Potable Water	GC-PID/EPA 8021	Volatile Halocarbons
Solid & Chemical Materials	GC-PID/EPA 8021	Volatile Halocarbons
Drinking Water	GC-ECD/EPA 504.1	1,2-Dibromomethane; 1,2-Dibromo-3-Chloropropane; 1,2,3-Trichloropropane
Non-Potable Water	GC-ECD/EPA 8011	1,2-Dibromoethane; Dibromochloropropane
Solid & Chemical Materials	GC-ECD/EPA 8011	1,2-Dibromoethane; Dibromochloropropane
Non-Potable Water	GC-ECD/EPA 612	Chlorinated Hydrocarbons
Non-Potable Water	GC-ECD/EPA 8121	Chlorinated Hydrocarbons
Solid & Chemical Materials	GC-ECD/EPA 8121	Chlorinated Hydrocarbons
Drinking Water	GC-ECD/EPA 551.1	Chlorination Disinfection Byproducts and Chlorinated Solvents
Drinking Water	GC-ECD/EPA 552.1	Haloacetic Acids and Dalapon
Drinking Water	GC-ECD/EPA 552.2	Haloacetic Acids and Dalapon
Non-Potable Water	GC-ECD/SM 6251B	Haloacetic Acids + 2,4,6-Trichlorophenol
Non-Potable Water	GC-ECD/EPA 611	Haloethers
Non-Potable Water	GC-ECD/EPA 8111	Haloethers
Solid & Chemical Materials	GC-ECD/EPA 8111	Haloethers
Drinking Water	GC-MS/EPA 525.2	Semivolatile Organics
Non-Potable Water	GC-MS/EPA 625 = SM 6410B	Semivolatile Organics
Non-Potable Water	GC-FTIR/EPA 8410	Semivolatile Organics
Solid & Chemical Materials	GC-FTIR/EPA 8410	Semivolatile Organics
Non-Potable Water	GC-MS/EPA 8270	Semivolatile Organics + Pesticides
Solid & Chemical Materials	GC-MS/EPA 8270	Semivolatile Organics + Pesticides

Matrix**Technology/Method****Analyte/Analyte group***

Non-Potable Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials

GC-MS/EPA 625 = SM 6410B
GC-MS/EPA 1625
GC-MS/EPA 8275
GC-MS/EPA 8275

Semivolatile Organics + Pesticides + PCBs
Semivolatile Organics + Pesticides + PCBs
Semivolatile Organics + Pesticides + PCBs
Semivolatile Organics + Pesticides + PCBs

Non-Potable Water
Non-Potable Water
Non-Potable Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials

GC-ECD/EPA 608.1
GC-ECD/EPA 608.2
GC-ECD/EPA 1656 = ASTM D3086-90
GC-ECD/SM 6630B
GC-ECD/EPA 8081
GC-ECD/EPA 8081

Organohalide Pesticides
Organohalide Pesticides
Organohalide Pesticides
Organohalide Pesticides
Organohalide Pesticides
Organohalide Pesticides

Drinking Water
Drinking Water
Drinking Water
Non-Potable Water
Non-Potable Water
Non-Potable Water

GC-ECD/EPA 505
GC-ECD/EPA 508
GC-ECD/EPA 508.1
GC-ECD/EPA 608 = SM 6630C
GC-ECD/EPA 617 = SM 6630B
GC-ECD/3M0222

Organohalide Pesticides + PCBs
Organohalide Pesticides + PCBs
Organohalide Pesticides + PCBs
Organohalide Pesticides + PCBs
Organohalide Pesticides + PCBs
Organohalide Pesticides + PCBs

Non-Potable Water
Solid & Chemical Materials

GC-ECD/EPA 8082
GC-ECD/EPA 8082

PCBs (Arochlors and Congeners)
PCBs (Arochlors and Congeners)

Drinking Water

GC-ECD/EPA 508A

PCBs as Decachlorobiphenyl

Drinking Water
Drinking Water
Drinking Water
Non-Potable Water
Non-Potable Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials

GC-ECD/EPA 515.1
GC-ECD/EPA 515.2
GC-ECD/EPA 515.3
GC-ECD/EPA 615
GC-ECD/EPA 1658
GC-ECD/SM 6640B
GC-ECD/EPA 8151
GC-ECD/EPA 8151

Chlorinated Herbicides
Chlorinated Herbicides
Chlorinated Herbicides
Chlorinated Herbicides
Chlorinated Herbicides
Chlorinated Herbicides
Chlorinated Herbicides
Chlorinated Herbicides

Drinking Water

HPLC-UV/EPA 555

Chlorinated Acid Pesticides

Non-Potable Water

GC-NPD/EPA 619

Triazine Pesticides

Drinking Water

HPLC-Fluor/EPA 531.1 = SM 6610B

Methylcarbamate Pesticides

Non-Potable Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials

HPLC-UV/EPA 632
HPLC-UV/EPA 632.1
HPLC-UV/EPA 8318
HPLC-UV/EPA 8318

Carbamate Pesticides
Carbamate Pesticides
Carbamate Pesticides
Carbamate Pesticides

Drinking Water

HPLC-UV/EPA 547 = SM 6651B

Glyphosphate

Drinking Water

HPLC-UV/EPA 549.2

Diquat

Drinking Water

GC-MS/EPA 548.1

Endothall

Non-Potable Water

GC-NPD/EPA 1659

Dazomet

Non-Potable Water

HPLC-UV/EPA 629

Cyanizine

Non-Potable Water

HPLC-UV/EPA 631

Benomyl

Non-Potable Water
Non-Potable Water

GC-ELCD(S mode)/EPA 630.1
Color/EPA 630

Dithiocarbamate Pesticides
Dithiocarbamates (as Ziram)

Non-Potable Water
Non-Potable Water
Non-Potable Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials

GC-NPD/EPA 614
GC-NPD/EPA 614.1
GC-NPD/EPA 622
GC-NPD/EPA 1657
GC-NPD/EPA 8141
GC-NPD/EPA 8141

Organophosphate Pesticides
Organophosphate Pesticides
Organophosphate Pesticides
Organophosphate Pesticides
Organophosphate Pesticides
Organophosphate Pesticides

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> [*]
Non-Potable Water	GC-NPD/EPA 622.1	Thiophosphate Pesticides
Non-Potable Water	GC-ECD/EPA 627	Dinitroaniline Pesticides
Non-Potable Water	GC-NPD/EPA 645	Amine Pesticides and Lethane
Non-Potable Water	HPLC-UV/EPA 1660	Pyrethrins and Pyrethroids
Non-Potable Water	HPLC-UV/EPA 1661	Bromoxynil
Non-Potable Water	HPLC-UV/EPA 637	MBTS and TCMTB Pesticides
Drinking Water	GC-NPD/EPA 507	Nitrogen- and Phosphorus-Containing Pesticides
Non-Potable Water	GC-NPD/EPA 633	Organonitrogen Pesticides
Non-Potable Water	GC-NPD/EPA 633.1	Neutral Nitrogen-Containing Pesticides
Non-Potable Water Solid & Chemical Materials	HPLC-UV/EPA 8321 HPLC-UV/EPA 8321	Dyes and Alkaloids Dyes and Alkaloids
Non-Potable Water	HPLC-TSMS/EPA 8321	Dyes & Alkaloids; Carbamate Pesticides; Organophosphorous Compounds; Chlorinated Phenoxyacids
Solid & Chemical Materials	HPLC-TSMS/EPA 8321	Dyes & Alkaloids; Carbamate Pesticides; Organophosphorous Compounds; Chlorinated Phenoxyacids
Non-Potable Water Solid & Chemical Materials	HPLC-PBMS/EPA 8325 HPLC-PBMS/EPA 8325	Benzidines; Carbamates Benzidines; Carbamates
Non-Potable Water	HPLC-EC/EPA 605	Benzidines
Drinking Water	HPLC-UV/EPA 550	Polynuclear Aromatic Hydrocarbons
Drinking Water	HPLC-UV/EPA 550.1	Polynuclear Aromatic Hydrocarbons
Non-Potable Water	GC-FID/EPA 610 = SM 6440B	Polynuclear Aromatic Hydrocarbons
Non-Potable Water	HPLC-UV/EPA 610 = SM 6440B	Polynuclear Aromatic Hydrocarbons
Non-Potable Water	GC-FID/EPA 8100	Polynuclear Aromatic Hydrocarbons
Solid & Chemical Materials	GC-FID/EPA 8100	Polynuclear Aromatic Hydrocarbons
Non-Potable Water	HPLC-UV/EPA 8310	Polynuclear Aromatic Hydrocarbons
Solid & Chemical Materials	HPLC-UV/EPA 8310	Polynuclear Aromatic Hydrocarbons
Non-Potable Water	HPLC-UV/ASTM D4657-92	Polynuclear Aromatic Hydrocarbons
Drinking Water	GC-HRMS/EPA 1613	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Non-Potable Water	GC-MS/EPA 613	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Non-Potable Water	GC-HRMS/EPA 613	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Non-Potable Water	GC-HRMS/EPA 1613	Dibenzo-p-dioxins and Dibenzofurans
Non-Potable Water	GC-MS/EPA 8280	Dibenzo-p-dioxins and Dibenzofurans
Solid & Chemical Materials	GC-MS/EPA 8280	Dibenzo-p-dioxins and Dibenzofurans
Non-Potable Water	GC-HRMS/EPA 8290	Dibenzo-p-dioxins and Dibenzofurans
Solid & Chemical Materials	GC-HRMS/EPA 8290	Dibenzo-p-dioxins and Dibenzofurans
Non-Potable Water	GC-FID/EPA 604 = SM 6420B	Phenols
Non-Potable Water	GC-FID/EPA 8041	Phenols
Solid & Chemical Materials	GC-FID/EPA 8041	Phenols
Non-Potable Water	GC-MS/EPA 1653	Chlorinated Phenolics

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> *
Drinking Water	GC-PID/EPA 506	Phthalate and Adipate Esters
Non-Potable Water	GC-ECD/EPA 606	Phthalate Esters
Non-Potable Water	GC-ECD/EPA 8061	Phthalate Esters
Solid & Chemical Materials	GC-ECD/EPA 8061	Phthalate Esters
Drinking Water	GC-NPD/EPA 509	Ethylene thiourea
Drinking Water	GC-ECD/EPA 556	Carbonyl Compounds
Non-Potable Water	HPLC-UV/EPA 8315	Aldehydes
Solid & Chemical Materials	HPLC-UV/EPA 8315	Aldehydes
Non-Potable Water	Color/EPA 8520	Formaldehyde
Solid & Chemical Materials	Color/EPA 8520	Formaldehyde
Non-Potable Water	HPLC-UV/EPA 1667	Isobutyraldehyde
Non-Potable Water	GC-FTIR/EPA 8430	Polyether Hydrolysis Products
Solid & Chemical Materials	GC-FTIR/EPA 8430	Polyether Hydrolysis Products
Non-Potable Water	GC-FID/EPA 603	Acrolein; Acrylonitrile
Non-Potable Water	HPLC-UV/EPA 8316	Acrolein; Acrylonitrile; Acrylamide
Solid & Chemical Materials	HPLC-UV/EPA 8316	Acrolein; Acrylonitrile; Acrylamide
Non-Potable Water	GC-NPD/EPA 8031	Acrylonitrile
Solid & Chemical Materials	GC-NPD/EPA 8031	Acrylonitrile
Non-Potable Water	GC-NPD/EPA 8033	Acrylonitrile
Solid & Chemical Materials	GC-NPD/EPA 8033	Acrylonitrile
Non-Potable Water	GC-ECD/EPA 8032	Acrylamide
Solid & Chemical Materials	GC-ECD/EPA 8032	Acrylamide
Non-Potable Water	GC-NPD/EPA 8131	Substituted Anilines
Solid & Chemical Materials	GC-NPD/EPA 8131	Substituted Anilines
Non-Potable Water	GC-ECD/EPA 609	Nitroaromatics and Isophorone
Non-Potable Water	GC-ECD/EPA 8091	Nitroaromatics
Solid & Chemical Materials	GC-ECD/EPA 8091	Nitroaromatics
Non-Potable Water	GC-NPD/EPA 8091	Nitroaromatics
Solid & Chemical Materials	GC-NPD/EPA 8091	Nitroaromatics
Non-Potable Water	HPLC-UV/EPA 8330	Nitroaromatics and Nitramines (Explosives)
Solid & Chemical Materials	HPLC-UV/EPA 8330	Nitroaromatics and Nitramines (Explosives)
Non-Potable Water	GC-NPD/EPA 607 (Other detectors may be used)	Nitrosamines
Non-Potable Water	GC-NPD/EPA 8070 (Other detectors may be used)	Nitrosamines
Solid & Chemical Materials	GC-NPD/EPA 8070 (Other detectors may be used)	Nitrosamines
Non-Potable Water	HPLC-UV/EPA 8331	Tetrazine
Solid & Chemical Materials	HPLC-UV/EPA 8331	Tetrazine
Non-Potable Water	HPLC-UV/EPA 8332	Nitroglycerine
Solid & Chemical Materials	HPLC-UV/EPA 8332	Nitroglycerine

Fields of Accreditation - metals

Fields of Accreditation (Matrix – Technology/Method – Analyte/Analyte group) listed below are based on those currently offered by NELAP Accrediting Authorities, and may not be a complete listing. EPA and state regulations limit the application of specific methods to specific matrices. Accrediting Authorities may deem methods equivalent as indicated (“=”) in the table.

* The specific analytes in an analyte group are yet to be defined.

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> *
Drinking Water	ICP-AES/EPA 200.7 = SM 3120B	Metals
Non-Potable water	ICP-AES/EPA 200.7 = SM 3120B	Metals
Non-Potable Water	ICP-AES/EPA 6010	Metals
Solid & Chemical Materials	ICP-AES/EPA 6010	Metals
Non-Potable Water	DCP-AES/ASTM D4190-82(88) = ARL AES0029	Metals
Drinking Water	ICP-MS/EPA 200.8	Metals
Non-Potable Water	ICP-MS/EPA 200.8	Metals
Non-Potable Water	ICP-MS/EPA 6020	Metals
Solid & Chemical Materials	ICP-MS/EPA 6020	Metals
Drinking Water	GFAAS/EPA 200.9	Metals
Non-Potable Water	GFAAS/EPA 200.9	Metals
Non-Potable Water	FAAS/SM 3111C	Metals
Non-Potable Water	GFAAS/SM3113B	Metals
Drinking Water	GFAAS/EPA 272.2 = SM 3113B	Ag
Non-Potable Water	GFAAS/EPA 7761	Ag
Solid & Chemical Materials	GFAAS/EPA 7761	Ag
Drinking Water	FAAS/EPA 272.1 = SM 3111B = USGS I-3720-85	Ag
Non-Potable Water	FAAS/EPA 272.1 = SM 3111B = USGS I-3720-85 = AOAC 974.27 = ANSI, 1975, p37	Ag
Non-Potable Water	FAAS/EPA 7760	Ag
Solid & Chemical Materials	FAAS/EPA 7760	Ag
Drinking Water	GFAAS/SM 3113B	Al
Non-Potable Water	GFAAS/EPA 202.2 = SM 3113B	Al
Drinking Water	FAAS/EPA 202.1 = SM 3111D	Al
Non-Potable Water	FAAS/EPA 202.1 = SM 3111D = USGS I-3051-85	Al
Non-Potable Water	FAAS/EPA 7020	Al
Solid & Chemical Materials	FAAS/EPA 7020	Al
Non-Potable Water	Color/SM 3500AID	Al
Drinking Water	GFAAS/SM 3113B = ASTM D2972-93C	As
Non-Potable Water	GFAAS/EPA 206.2 = SM 3113B = ASTM D2972-93C	As
Non-Potable Water	GFAAS/EPA 7060	As
Solid & Chemical Materials	GFAAS/EPA 7060	As
Drinking Water	HGAAS/SM 3114B = ASTM D2972-93B	As
Non-Potable Water	HGAAS/EPA 206.3 = SM 3114B = ASTM D2972-93B = USGS I-3062-85	As
Non-Potable Water	HGAAS/EPA 7061	As
Solid & Chemical Materials	HGAAS/EPA 7061	As
Non-Potable Water	HGAAS/EPA 7062	As
Solid & Chemical Materials	HGAAS/EPA 7062	As
Non-Potable Water	Color/EPA 206.4 = SM 3500AsC = ASTM D2972-93A = USGS I-3060-85	As
Non-Potable Water	ASV/EPA 7063	As
Solid & Chemical Materials	ASV/EPA 7063	As
Non-Potable Water	GFAAS/EPA 231.2	Au
Non-Potable Water	FAAS/EPA 231.1 = SM 3111B	Au

Matrix**Technology/Method****Analyte/Analyte group***

Non-Potable Water	Color/EPA 212.3 = SM 4500B-B = USGS I-3112-85	B
Drinking Water	GFAAS/SM 3113B	Ba
Non-Potable Water	GFAAS/EPA 208.2 = SM 3113B = ASTM D4382-91	Ba
Non-Potable Water	GFAAS/EPA 7081	Ba
Solid & Chemical Materials	GFAAS/EPA 7081	Ba
Drinking Water	FAAS/SM 3111D	Ba
Non-Potable Water	FAAS/EPA 208.1 = SM 3111D = USGS I-3084-85	Ba
Non-Potable Water	FAAS/EPA 7080	Ba
Solid & Chemical Materials	FAAS/EPA 7080	Ba
Drinking Water	GFAAS/SM 3113B = ASTM D3645-93B	Be
Non-Potable Water	GFAAS/EPA 210.2 = SM 3113B = ASTM D3645-93B	Be
Non-Potable Water	GFAAS/EPA 7091	Be
Solid & Chemical Materials	GFAAS/EPA 7091	Be
Non-Potable Water	FAAS/EPA 210.1 = SM 3111D = ASTM D3645-93A = USGS I-3095-85	Be
Non-Potable Water	FAAS/EPA 7090	Be
Solid & Chemical Materials	FAAS/EPA 7090	Be
Non-Potable Water	Color/SM 3500BeD	Be
Drinking Water	FAAS/EPA 215.1 = SM 3111B = ASTM D511-93B	Ca
Non-Potable Water	FAAS/EPA 215.1 = SM 3111B = ASTM D511-93B = USGS I-3152-85	Ca
Non-Potable Water	FAAS/EPA 7140	Ca
Solid & Chemical Materials	FAAS/EPA 7140	Ca
Drinking Water	Titration/EPA 215.2 = SM 3500CaD = ASTM D511-93A	Ca
Non-Potable Water	Titration/EPA 215.2 = SM 3500CaD = ASTM D511-93A	Ca
Non-Potable Water	ICP-AES/USGS I-1472-85	Cd
Drinking Water	GFAAS/SM 3113B	Cd
Non-Potable Water	GFAAS/EPA 213.2 = SM 3113B = ASTM D3557-90D	Cd
Non-Potable Water	GFAAS/EPA 7131	Cd
Solid & Chemical Materials	GFAAS/EPA 7131	Cd
Non-Potable Water	FAAS/EPA 213.1 = SM 3111B = ASTM D3557-90A = USGS I-3135-85 = AOAC 974.27 = ANSI, 1975, p37	Cd
Non-Potable Water	FAAS/ASTM D3557-90B	Cd
Non-Potable Water	FAAS/EPA 7130	Cd
Solid & Chemical Materials	FAAS/EPA 7130	Cd
Non-Potable Water	Color/SM 3500CdD	Cd
Non-Potable Water	ASV/ASTM D3557-90C	Cd
Non-Potable Water	GFAAS/EPA 219.2 = SM 3113B = ASTM D3558-90C	Co
Non-Potable Water	GFAAS/EPA 7201	Co
Solid & Chemical Materials	GFAAS/EPA 7201	Co
Non-Potable Water	FAAS/EPA 219.1 = SM 3111B = ASTM D3558-90A = USGS I-3239-85 = ANSI, 1975, p37	Co
Non-Potable Water	FAAS/ASTM D3558-90B	Co
Non-Potable Water	FAAS/EPA 7200	Co
Solid & Chemical Materials	FAAS/EPA 7200	Co

Matrix**Technology/Method****Analyte/Analyte group***

Drinking Water	GFAAS/SM 3113B	Cr
Non-Potable Water	GFAAS/EPA 218.2 = SM 3113B = ASTM D1687-92C	Cr
Non-Potable Water	GFAASEPA 7191	Cr
Solid & Chemical Materials	GFAASEPA 7191	Cr
Non-Potable Water	FAAS/EPA 218.1 = SM 3111B = ASTM D1687-92B = USGS I-3236-85 = AOAC 974.27	Cr
Non-Potable Water	FAAS/EPA 218.3 = SM 3111C	Cr
Non-Potable Water	FAAS/EPA 7190	Cr
Solid & Chemical Materials	FAAS/EPA 7190	Cr
Non-Potable Water	Color/SM 3500CrD = ASTM D1687-86A	Cr
Non-Potable Water	Color/LACHAT 10-124-13-1-A	Cr
Non-Potable Water	FAAS/EPA 218.4 = SM 3111C = USGS I-1232-85	Cr(VI)
Non-Potable Water	IC/EPA 218.6 = SM 3500CrE	Cr(VI)
Non-Potable Water	Color/SM 3500CrD = ASTM D1687-92A = USGS I-1230-85 = AOAC 993.23	Cr(VI)
Non-Potable Water	GFAAS/EPA 7195+7191	Cr(VI)
Solid & Chemical Materials	GFAAS/EPA 7195+7191	Cr(VI)
Non-Potable Water	FAAS/EPA 7195+7190	Cr(VI)
Solid & Chemical Materials	FAAS/EPA 7195+7190	Cr(VI)
Non-Potable Water	FAAS/EPA 7197	Cr(VI)
Solid & Chemical Materials	FAAS/EPA 7197	Cr(VI)
Non-Potable Water	Color/EPA 7196	Cr(VI)
Solid & Chemical Materials	Color/EPA 7196	Cr(VI)
Non-Potable Water	IC/EPA 7199	Cr(VI)
Solid & Chemical Materials	IC/EPA 7199	Cr(VI)
Non-Potable Water	DPP/EPA 7198	Cr(VI)
Solid & Chemical Materials	DPP/EPA 7198	Cr(VI)
Drinking Water	GFAAS/EPA 220.2 = SM 3113B = ASTM D1688-95C	Cu
Non-Potable Water	GFAAS/EPA 220.2 = SM 3113B = ASTM D1688-95C	Cu
Non-Potable Water	GFAAS/EPA 7211	Cu
Solid & Chemical Materials	GFAAS/EPA 7211	Cu
Drinking Water	FAAS/EPA 220.1 = SM 3111B = ASTM D1688-90A	Cu
Non-Potable Water	FAAS/EPA 220.1 = SM 3111B = ASTM D1688-90A	Cu
Non-Potable Water	= USGS I-3270-85 = AOAC 974.27 = ANSI, 1975, p37	
Non-Potable Water	FAAS/ASTM D-1688-90B	Cu
Non-Potable Water	FAAS/EPA 7210	Cu
Solid & Chemical Materials	FAAS/EPA 7210	Cu
Non-Potable Water	Color/SM 3500CuD	Cu
Non-Potable Water	Color/SM 3500CuE	Cu
Non-Potable Water	Color/HACH 8506	Cu
Drinking Water	GFAAS/EPA 236.2 = SM 3113B	Fe
Non-Potable Water	GFAAS/EPA 236.2 = SM 3113B = ASTM D1068-90C	Fe
Non-Potable Water	GFAAS/EPA 7381	Fe
Solid & Chemical Materials	GFAAS/EPA 7381	Fe
Drinking Water	FAAS/EPA 236.1 = SM 3111B	Fe
Non-Potable Water	FAAS/EPA 236.1 = SM 3111B = ASTM D-1068-90A = USGS I-3381-85 = AOAC 974.27	Fe
Non-Potable Water	FAAS/ASTM D-1068-90B	Fe
Non-Potable Water	FAAS/SM 3111D	Fe
Non-Potable Water	FAAS/EPA 7380	Fe
Solid & Chemical Materials	FAAS/EPA 7380	Fe
Non-Potable Water	Color/SM 3500FeD = ASTM D1068-90D = HACH 8008	Fe

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> [*]
Drinking Water	CVAAS/EPA 245.1 = SM 3112B = ASTM D3223-91	Hg
Non-Potable Water	CVAAS/EPA 245.1 = SM 3112B = ASTM D3223-91 = USGS I-3462-85 = AOAC 977.22	Hg
Drinking Water	CVAAS/EPA 245.2	Hg
Non-Potable Water	CVAAS/EPA 245.2	Hg
Non-Potable Water	CVAAS/EPA 7470	Hg
Solid & Chemical Materials	CVAAS/EPA 7471	Hg
Non-Potable Water	CVAFS/EPA 1631	Hg
Non-Potable Water	ASV/EPA 7472	Hg
Solid & Chemical Materials	ASV/EPA 7472	Hg
Non-Potable Water	GFAAS/EPA 235.2	Ir
Non-Potable Water	FAAS/EPA 235.1 = SM 3111B	Ir
Drinking Water	FAAS/SM 3111B	K
Non-Potable Water	FAAS/EPA 258.1 = SM 3111B = USGS I-3630-85 = AOAC 973.53	K
Non-Potable Water	FAAS/EPA 7610	K
Solid & Chemical Materials	FAAS/EPA 7610	K
Drinking Water	FAES/SM 3500KD	K
Non-Potable Water	FAES/SM 3500KD	K
Non-Potable Water	Color/SM 317B (14 th Ed)	K
Non-Potable Water	FAAS/EPA 7430	Li
Solid & Chemical Materials	FAAS/EPA 7430	Li
Drinking Water	FAAS/SM 3111B	Mg
Non-Potable Water	FAAS/EPA 242.1 = SM 3111B = ASTM D511-93B = USGS I-3447-85 = AOAC 974.27	Mg
Non-Potable Water	FAAS/EPA 7450	Mg
Solid & Chemical Materials	FAAS/EPA 7450	Mg
Non-Potable Water	Titration/ASTM D511-77A	Mg
Non-Potable Water	Grav/SM 3500MgD	Mg
Drinking Water	GFAAS/EPA 243.2 = SM 3113B	Mn
Non-Potable Water	GFAAS/EPA 243.2 = SM 3113B = ASTM D858-90C	Mn
Non-Potable Water	GFAAS/EPA 7461	Mn
Solid & Chemical Materials	GFAAS/EPA 7461	Mn
Drinking Water	FAAS/EPA 243.1 = SM 3111B	Mn
Non-Potable Water	FAAS/EPA 243.1 = SM 3111B = ASTM D858-90A = USGS I-3454-85 = AOAC 974.27	Mn
Non-Potable Water	FAAS/EPA 7460	Mn
Solid & Chemical Materials	FAAS/EPA 7460	Mn
Non-Potable Water	Color/SM 3500MnD = AOAC 920.203 = HACH 8034	Mn

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> *
Non-Potable Water	GFAAS/EPA 246.2 = SM 3113B	Mo
Non-Potable Water	GFAAS/EPA 7481	Mo
Solid & Chemical Materials	GFAAS/EPA 7481	Mo
Non-Potable Water	FAAS/EPA 246.1 = SM 3111D = USGS I-3490-85	Mo
Non-Potable Water	FAAS/EPA 7480	Mo
Solid & Chemical Materials	FAAS/EPA 7480	Mo
Drinking Water	FAAS/SM 3111B	Na
Non-Potable Water	FAAS/EPA 273.1 = SM 3111B = USGS I-3735-85	Na
Non-Potable Water	FAAS/EPA 7770	Na
Solid & Chemical Materials	FAAS/EPA 7770	Na
Non-Potable Water	FAES/SM 3500NaD	Na
Drinking Water	GFAAS/SM 3113B	Ni
Non-Potable Water	GFAAS/EPA 249.2 = SM 3113B = ASTM D1886-90C	Ni
Non-Potable Water	GFAAS/EPA 7521	Ni
Solid & Chemical Materials	GFAAS/EPA 7521	Ni
Drinking Water	FAAS/SM 3111B	Ni
Non-Potable Water	FAAS/EPA 249.1 = SM 3111B = ASTM D1886-90A = USGS I-3499-85	Ni
Non-potable Water	FAAS/ASTM D1886-90B	Ni
Non-Potable Water	FAAS/EPA 7520	Ni
Solid & Chemical Materials	FAAS/EPA 7520	Ni
Non-Potable Water	Color/SM 3500NiD	Ni
Non-Potable Water	GFAAS/EPA 252.2	Os
Non-Potable Water	FAAS/EPA 252.1 = SM 3111D	Os
Non-Potable Water	FAAS/EPA 7550	Os
Solid & Chemical Materials	FAAS/EPA 7550	Os
Drinking Water	GFAAS/SM 3113B = ASTM D3559-95D	Pb
Non-Potable Water	GFAAS/EPA 239.2 = SM 3113B = ASTM D3559-95D	Pb
Non-Potable Water	GFAAS/EPA 7421	Pb
Solid & Chemical Materials	GFAAS/EPA 7421	Pb
Non-Potable Water	FAAS/EPA 239.1 = SM 3111B = ASTM D3559-90A = USGS I-3399-85 = AOAC 974.27	Pb
Non-Potable Water	FAAS/ASTM D3559-90B	Pb
Non-Potable Water	FAAS/EPA 7420	Pb
Solid & Chemical Materials	FAAS/EPA 7420	Pb
Non-Potable Water	Color/SM 3500PbD	Pb
Non-Potable Water	ASV/ASTM D3559-90C	Pb
Non-Potable Water	GFAAS/EPA 253.2	Pd
Non-Potable Water	FAAS/EPA 253.1 = SM 3111B	Pd
Non-Potable Water	GFAAS/EPA 255.2	Pt
Non-Potable Water	FAAS/EPA 255.1 = SM 3111B	Pt
Non-Potable Water	GFAAS/EPA 265.2	Rh
Non-Potable Water	FAAS/EPA 265.1 = SM 3111B	Rh
Non-Potable Water	GFAAS/EPA 267.2	Ru
Non-Potable Water	FAAS/EPA 267.1 = SM 3111B	Ru

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> *
Drinking Water	GFAAS/SM 3113B	Sb
Non-Potable Water	GFAAS/EPA 204.2 = SM 3113B	Sb
Non-Potable Water	GFAAS/EPA 7041	Sb
Solid & Chemical Materials	GFAAS/EPA 7041	Sb
Non-Potable Water	FAAS/EPA 204.1 = SM 3111B	Sb
Non-Potable Water	FAAS/EPA 7040	Sb
Solid & Chemical Materials	FAAS/EPA 7040	Sb
Drinking Water	HGAAS/ASTM D3697-92	Sb
Non-Potable Water	HGAAS/EPA 7062	Sb
Solid & Chemical Materials	HGAAS/EPA 7062	Sb
Drinking Water	GFAAS/SM 3113B = ASTM D3859-93B	Se
Non-Potable Water	GFAAS/EPA 270.2 = SM 3113B = ASTM D3859-93B	Se
Non-Potable Water	GFAAS/EPA 7740	Se
Solid & Chemical Materials	GFAAS/EPA 7740	Se
Drinking Water	HGAAS/SM 3114B = ASTM D3859-93A	Se
Non-Potable Water	HGAAS/EPA 270.3 = SM 3114B = ASTM D3859-93A = USGS I-3667-85	Se
Non-Potable Water	HGAAS/EPA 7741	Se
Solid & Chemical Materials	HGAAS/EPA 7741	Se
Non-Potable Water	HGAAS/EPA 7742	Se
Solid & Chemical Materials	HGAAS/EPA 7742	Se
Non-Potable Water	GFAAS/EPA 282.2 = SM3113B	Sn
Non-Potable Water	FAAS/EPA 282.1 = SM 3111B = USGS I-3850-78	Sn
Non-Potable Water	FAAS/EPA 7870	Sn
Solid & Chemical Materials	FAAS/EPA 7870	Sn
Non-Potable Water	FAAS/EPA 7780	Sr
Solid & Chemical Materials	FAAS/EPA 7780	Sr
Non-Potable Water	GFAAS/EPA 283.2	Ti
Non-Potable Water	FAAS/EPA 283.1 = SM3111D	Ti
Non-Potable Water	GFAAS/EPA 279.2	Tl
Non-Potable Water	GFAAS/EPA 7841	Tl
Solid & Chemical Materials	GFAAS/EPA 7841	Tl
Non-Potable Water	FAAS/EPA 279.1 = SM 3111B	Tl
Non-Potable Water	FAAS/EPA 7840	Tl
Solid & Chemical Materials	FAAS/EPA 7840	Tl
Non-Potable Water	GFAAS/EPA 286.2 = ASTM D3373-93	V
Non-Potable Water	GFAAS/EPA 7911	V
Solid & Chemical Materials	GFAAS/EPA 7911	V
Non-Potable Water	FAAS/EPA 286.1 = SM 3111D	V
Non-Potable Water	FAAS/EPA 7910	V
Solid & Chemical Materials	FAAS/EPA 7910	V
Non-Potable Water	Color/SM 3500VD	V
Non-Potable Water	GFAAS/EPA 289.2	Zn
Non-Potable Water	GFAAS/EPA 7951	Zn
Solid & Chemical Materials	GFAAS/EPA 7951	Zn
Drinking Water	FAAS/EPA 289.1 = SM 3111B	Zn
Non-Potable Water	FAAS/EPA 289.1 = SM 3111B = ASTM D1691-90A = USGS I-3900-85 = AOAC 974.27 = ANSI, 1975, p.37	Zn
Non-Potable Water	FAAS/ASTM D-1691-90B	Zn
Non-Potable Water	FAAS/EPA 7950	Zn
Solid & Chemical Materials	FAAS/EPA 7950	Zn
Non-Potable Water	Color/SM 3500ZnE	Zn
Non-Potable Water	Color/SM 3500ZnF = HACH 8009	Zn

Fields of Accreditation – inorganics and miscellaneous

Fields of Accreditation (Matrix – Technology/Method – Analyte/Analyte group) listed below are based on those currently offered by NELAP Accrediting Authorities, and may not be a complete listing. EPA and state regulations limit the application of specific methods to specific matrices. Accrediting Authorities may deem methods equivalent as indicated (“=”) in the table.

* The specific analytes in an analyte group are yet to be defined.

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> *
Non-Potable Water	Titration/EPA 305.1 = SM 2310B = ASTM D1067-92	Acidity
Drinking Water	Titration/EPA 310.1 = USGS I-1030-85	Alkalinity
Non-Potable Water	Titration/EPA 310.1 = USGS I-1030-85 = AOAC 973.43	Alkalinity
Drinking Water	Titration/SM 2320B = ASTM D1067-92B	Alkalinity
Non-Potable Water	Titration/SM 2320B = ASTM D1067-92B	Alkalinity
Non-Potable Water	Color/EPA 310.2	Alkalinity
Non-Potable Water	Distillation/SM 4500NH3-B	Ammonia (Prelim. Distillation)
Drinking Water	Pot/SM 4500NH3-D	Ammonia
Non-Potable Water	Pot/EPA 350.3 = ASTM D1426-93B	Ammonia
Non-Potable Water	Pot/SM 4500NH3-E	Ammonia
Drinking Water	Color/SM 4500NH3-F	Ammonia
Non-Potable Water	Color/SM 4500NH3-F	Ammonia
Drinking Water	Color/SM 4500NH3-G	Ammonia
Non-Potable Water	Color/EPA 350.1 = SM 4500NH3-G = USGS I-4523-85	Ammonia
Non-Potable Water	Color/ASTM D1426-93A = USGS I-3520-85	Ammonia
Non-Potable Water	Color or Titration/EPA 350.2 = AOAC 973.49	Ammonia
Non-Potable Water	Titration/SM 4500NH3-C	Ammonia
Drinking Water	TEM/EPA 100.1	Asbestos
Drinking Water	TEM/EPA 100.2	Asbestos
Non-Potable Water	Pol or Galv or Titration/EPA 405.1 = SM 5210B = USGS I-1578-78 = AOAC 973.44	Biochemical Oxygen Demand (BOD)
Non-Potable Water	Pol or Galv or Titration/SM 5210B	Carbonaceous BOD (CBOD)
Non-Potable Water	Pol or Galv/EPA 360.1 = SM 4500O-G = USGS I-1576-78	Dissolved Oxygen
Non-Potable Water	Titration/EPA 360.2 = SM 4500O-C = USGS I-1575-78 = AOAC 973.45B	Dissolved Oxygen
Non-Potable Water	Color/ASTM D888-92A	Dissolved Oxygen
Non-Potable Water	Pot/ASTM D888-92B	Dissolved Oxygen
Non-Potable Water	Pol or Galv/SM 2710B	Oxygen Consumption Rate
Non-Potable Water	Titration/EPA 410.1 = SM 5220C = ASTM D1252-88A = HACH 8230 = USGS I-3560-85	Chemical Oxygen Demand (COD)
Non-Potable Water	Titration/EPA 410.2 = USGS I-3562-86	Chemical Oxygen Demand (COD)
Non-Potable Water	Titration/EPA 410.3 = USGS I-3562-85 = AOAC 973.46	Chemical Oxygen Demand (COD)
Non-Potable Water	Titration/SM 5220B	Chemical Oxygen Demand (COD)
Non-Potable Water	Color/EPA 410.4 = SM 5220D = ASTM D1252-88B = USGS I-3561-85 = HACH 8000	Chemical Oxygen Demand (COD)
Drinking Water	IC/EPA 300.0	Bromate
Non-Potable Water	IC/EPA 300.0	Bromate
Drinking Water	IC/EPA 300.1	Bromate

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> *
Drinking Water	IC/EPA 300.0	Bromide
Non-Potable Water	IC/EPA 300.0 = SM 4110B	Bromide
Drinking Water	IC/EPA 300.1	Bromide
Non-Potable Water	Tittr/EPA 320.1 = ASTM D1246-82(88)C = USGS I-1125-85	Bromide
Non-Potable Water	IC/EPA 9056	Bromide
Solid & Chemical Materials	IC/EPA 9056	Bromide
Non-Potable Water	Pot/EPA 9211	Bromide
Solid & Chemical Materials	Pot/EPA 9211	Bromide
Solid & Chemical Materials	Tittr/EPA 9080	Cation Exchange Capacity
Solid & Chemical Materials	FAAS or FAES/EPA 9081	Cation Exchange Capacity
Drinking Water	IC/EPA 300.0	Chlorate
Non-Potable Water	IC/EPA 300.0	Chlorate
Drinking Water	IC/EPA 300.1	Chlorate
Drinking Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91 = Lachat 10-510-00-1-A	Chloride
Non-Potable Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91 Color/ASTM D 512-89C = USGS I-1187-85	Chloride
Non-Potable Water	IC/EPA 9056	Chloride
Solid & Chemical Materials	IC/EPA 9056	Chloride
Non-Potable Water	IC/EPA 9057	Chloride
Solid & Chemical Materials	IC/EPA 9057	Chloride
Drinking Water	Color/EPA 325.1 = EPA 325.2 = SM 4500Cl-E = USGS I-2187-85 = Lachat 10-117-07-1-A	Chloride
Non-Potable Water	Color/EPA 325.1 = EPA 325.2 = SM 4500Cl-E = USGS I-2187-85 = Lachat 10-117-07-1-A	Chloride
Non-Potable Water	Color/EPA 9250	Chloride
Solid & Chemical Materials	Color/EPA 9250	Chloride
Non-Potable Water	Color/EPA 9251	Chloride
Solid & Chemical Materials	Color/EPA 9251	Chloride
Drinking Water	Tittr/EPA 325.3 = SM 4500Cl-C = ASTM D512-89A = USGS I-1184-85 = AOAC 973.51	Chloride
Non-Potable Water	Tittr/EPA 325.3 = SM 4500Cl-C = ASTM D512-89A = USGS I-1184-85 = AOAC 973.51	Chloride
Drinking Water	Tittr/SM 4500Cl-B = ASTM D512-89B = USGS I-1183-85	Chloride
Non-Potable Water	Tittr/SM 4500Cl-B = ASTM D512-89B = USGS I-1183-85	Chloride
Non-Potable Water	Tittr/EPA 9252	Chloride
Solid & Chemical Materials	Tittr/EPA 9252	Chloride
Non-Potable Water	Tittr/EPA 9253	Chloride
Solid & Chemical Materials	Tittr/EPA 9253	Chloride
Drinking Water	Amp/SM 4500Cl-D	Chloride
Non-Potable Water	Pot/EPA 9212	Chloride
Solid & Chemical Materials	Pot/EPA 9212	Chloride
Drinking Water	IC/EPA 300.0	Chlorite
Non-Potable Water	IC/EPA 300.0	Chlorite
Drinking Water	IC/EPA 300.1	Chlorite

Matrix**Technology/Method****Analyte/Analyte group***

Non-Potable Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials
Non-Potable Water
Solid & Chemical Materials
Non-Potable Water
Solid & Chemical Materials
Drinking Water
Drinking Water
Non-Potable Water
Drinking Water
Drinking Water
Drinking Water
Non-Potable Water
Drinking Water
Non-Potable Water
Drinking Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials
Non-Potable Water
Solid & Chemical Materials

Titration/SM 4500CI-B
Titration/SM 4500CI-C = ASTM D1253-86(92)
Titration/EPA 9077A
Titration/EPA 9077A
Titration/EPA 9077B
Titration/EPA 9077B
Titration/EPA 9077C
Titration/EPA 9077C
Color/SM 4500CI-H
Amp/SM 4500CI-E
Amp/SM 4500CI-E
Pot/SM4500CI-I
Amp/ASTM D1253-86
Amp/SM4500CI-D
Amp/SM4500CI-D
Titration/SM 4500CI-F
Titration/SM 4500CI-F
Color/SM 4500CI-G
Color/SM 4500CI-G
XRF/EPA 9075
XRF/EPA 9075
Coulometric titrimetry/EPA 9076
Coulometric titrimetry/EPA 9076

Chlorine
Chlorine
Chlorine
Chlorine
Chlorine
Chlorine
Chlorine
Chlorine
Free Chlorine
Total Chlorine
Chlorine
Total Chlorine
Total Chlorine
Free & Total Chlorine
Chlorine
Free & Total Chlorine
Chlorine
Free & Total Chlorine
Chlorine
Chlorine
Chlorine
Chlorine
Chlorine

Non-Potable Water
Non-Potable Water
Non-Potable Water
Non-Potable Water
Non-Potable Water

Amp/EPA 330.1
Titration/EPA 330.2
Titration/EPA 330.3
Titration/EPA 330.4
Color/EPA 330.5

Total Residual Chlorine
Total Residual Chlorine
Total Residual Chlorine
Total Residual Chlorine
Total Residual Chlorine

Drinking Water
Drinking Water
Drinking Water

Amp/SM4500CIO2-C
Titration/SM4500CIO2-D
Amp/SM4500CIO2-E

Chlorine Dioxide
Chlorine Dioxide
Chlorine Dioxide & Chlorite

Non-Potable Water

Color or Fluor or HPLC/SM 10200H

Chlorophylls

Non-Potable Water
Drinking Water
Non-Potable Water
Non-Potable Water

Color/EPA 110.1 = SM 2120E
Color/EPA 110.2 = SM 2120B
Color/EPA 110.2 = SM 2120B = USGS I-1250-85
Color/EPA 110.3 = SM 2120C

Color
Color
Color
Color

Solid & Chemical Materials

Compatibility/EPA 9090

Compatibility Test

Drinking Water

Cond/EPA 120.1 = SM 2510B = ASTM D1125-95A
= HACH 8160

Conductivity

Non-Potable Water

Cond/EPA 120.1 = SM 2510B = ASTM D1125-95A
= USGS I-1780-85 = AOAC 973.40 = HACH 8160

Conductivity

Non-Potable Water

Cond/EPA 9050

Conductivity

Solid & Chemical Materials

Cond/EPA 9050

Conductivity

Drinking Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials

Pot/SM 2330B
Pot/SM 2330B
Corrosivity/EPA 1110
Corrosivity/EPA 1110

Corrosivity (Langlier Index)
Corrosivity (Langlier Index)
Corrosivity
Corrosivity

Drinking Water
Non-Potable Water

Distillation/SM 4500CN-C
Distillation/SM 4500CN-C

Cyanide (Prelim. Distillation)
Cyanide (Prelim. Distillation)

Drinking Water
Non-Potable Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials

Distillation/SM 4500CN-G = ASTM D2036-91B
Distillation/SM 4500CN-G = ASTM D2036-91B
Distillation/EPA 335.1
Distillation/EPA 9013 + Color or Titration/EPA 9010
Distillation/EPA 9013 + Color or Titration/EPA 9010

Cyanide (Amenable)
Cyanide (Amenable)
Cyanide (Amenable)
Cyanide (Extractable)
Cyanide (Extractable)

Matrix**Technology/Method****Analyte/Analyte group***

Drinking Water	Color/SM 4500CN-E = ASTM D2036-91A = USGS I-3300-85	Cyanide
Non-Potable Water	Color/EPA 335.2 = SM 4500CN-E = ASTM D2036-91A = USGS I-3300-85	Cyanide
Non-Potable Water	Color/EPA 335.3	Cyanide
Drinking Water	Color/EPA 335.4	Cyanide
Non-Potable Water	Color/EPA 335.4	Cyanide
Non-Potable Water	Color or Titr/EPA 9014	Cyanide
Solid & Chemical Materials	Color or Titr/EPA 9014	Cyanide
Non-Potable Water	Titration/SM 4500CN-D	Cyanide
Drinking Water	Pot/SM 4500CN-F	Cyanide
Non-Potable Water	Pot/EPA 9213	Cyanide
Solid & Chemical Materials	Pot/EPA 9213	Cyanide
Non-Potable Water	Color/EPA 9012	Cyanide (Total)
Solid & Chemical Materials	Color/EPA 9012	Cyanide (Total)
Non-Potable Water	Color or Titr/EPA 9010	Cyanide (Total)
Solid & Chemical Materials	Color or Titr/EPA 9010	Cyanide (Total)
Non-Potable Water	Color or Titr/EPA 9010	Cyanide (Amenable)
Solid & Chemical Materials	Color or Titr/EPA 9010	Cyanide (Amenable)
Non-Potable Water	Dermal Corrosion/EPA 1120	Dermal Corrosion
Solid & Chemical Materials	Dermal Corrosion/EPA 1120	Dermal Corrosion
Non-Potable Water	Extraction/EPA 1310	EP-Tox Extraction
Solid & Chemical Materials	Extraction/EPA 1310	EP-Tox Extraction
Drinking Water	Distillation/SM 4500F-B	Fluoride (Prelim. Distillation)
Non-Potable Water	Distillation/SM 4500F-B	Fluoride (Prelim. Distillation)
Drinking Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91 = Lachat 10-510-00-1-A	Fluoride
Non-Potable Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91	Fluoride
Non-Potable Water	IC/EPA 9056	Fluoride
Solid & Chemical Materials	IC/EPA 9056	Fluoride
Drinking Water	Color/EPA 340.1 = SM4500F-D = HACH 8029	Fluoride
Non-Potable Water	Color/EPA 340.1 = SM4500F-D = ASTM D1179-93A = HACH 8029	Fluoride
Drinking Water	Pot/EPA 340.2 = SM4500F-C = ASTM D1179-93B	Fluoride
Non-Potable Water	Pot/EPA 340.2 = SM4500F-C = ASTM D1179-93B = USGS I-4327-85	Fluoride
Drinking Water	Color/EPA 340.3 = SM4500F-E	Fluoride
Non-Potable Water	Color/EPA 340.3 = SM4500F-E	Fluoride
Drinking Water	Color/Technicon 129-71W	Fluoride
Drinking Water	Pot/Technicon 380-75WE = Lachat 10-109-12-2-A	Fluoride
Non-Potable Water	Pot/Lachat 10-109-12-2-A	Fluoride
Non-Potable Water	Pot/EPA 9214	Fluoride
Solid & Chemical Materials	Pot/EPA 9214	Fluoride
Drinking Water	Titration/SM 2340C	Hardness
Drinking Water	Titration/EPA 130.2 = SM 2340C	Hardness
Non-Potable Water	Titration/EPA 130.2 = SM 2340C = ASTM D1126-86(92) = USGS I-1338-85 = AOAC 973.52B	Hardness
Non-Potable Water	Color/EPA 130.1	Hardness
Drinking Water	--/SM 2340B = SM 3500Ca-D	Hardness (calc.)
Non-Potable Water	--/SM 2340B = SM 3500Ca-D	Hardness (calc.)
Non-Potable Water	--/EPA 200.7 = SM 3120B = ASTM D511-93B	Hardness (calc.)
Non-Potable Water	--/EPA 215.1 + 242.1 = SM 3111B = USGS I-3152-85 + I-3447-85	Hardness (calc.)
Non-Potable Water	Ignitability/EPA 1010	Ignitability
Solid & Chemical Materials	Ignitability/EPA 1010	Ignitability
Non-Potable Water	Ignitability/EPA 1020	Ignitability
Solid & Chemical Materials	Ignitability/EPA 1020	Ignitability
Non-Potable Water	Ignitability/EPA 1030	Ignitability
Solid & Chemical Materials	Ignitability/EPA 1030	Ignitability

<u>Matrix</u>	<u>Technology/Method</u>	<u>Analyte/Analyte group</u> *
Non-Potable Water	Color/EPA 351.1 = SM 4500NH3-G = USGS I-4551-78	Kjeldahl Nitrogen
Non-Potable Water	Color/EPA 351.2	Kjeldahl Nitrogen
Non-Potable Water	Color/SM 4500NH3-F	Kjeldahl Nitrogen
Non-Potable Water	Color or Titr/EPA 351.3 = ASTM D3590-89A = AOAC 973.48	Kjeldahl Nitrogen
Non-Potable Water	Titration/SM 4500NH3-C	Kjeldahl Nitrogen
Non-Potable Water	Pot/EPA 351.4	Kjeldahl Nitrogen
Non-Potable Water	Pot/SM 4500NH3-E	Kjeldahl Nitrogen
Non-Potable Water	Color/ASTM D3590-89B	Kjeldahl Nitrogen
Solid & Chemical Materials	Filtration/EPA 9096	Liquid Release Test
Solid & Chemical Materials	Extraction/EPA 1330	Mobile Metal Conc. in Oily Wastes
Non-Potable Water	Extraction/EPA 1320	Multiple Extraction Procedure
Solid & Chemical Materials	Extraction/EPA 1320	Multiple Extraction Procedure
Drinking Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91 = Waters B-1011 = Lachat 10-510-00-1-A	Nitrate
Non-Potable Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91 = Waters B-1011	Nitrate
Non-Potable Water	IC/EPA 9056	Nitrate
Solid & Chemical Materials	IC/EPA 9056	Nitrate
Drinking Water	Pot/EPA 9210	Nitrate
Non-Potable Water	Pot/EPA 9210	Nitrate
Solid & Chemical Materials	Pot/SM 4500NO3-D = Orion 601	Nitrate
Drinking Water	Color/Lachat 10-107-04-1-J	Nitrate
Non-Potable Water	Color/EPA 352.1 = SM 419D (14 th Ed) = AOAC 973.50	Nitrate
Non-Potable Water	Color/EPA 9200	Nitrate
Solid & Chemical Materials	Color/EPA 9200	Nitrate
Non-Potable Water	-- /EPA 353.1 = SM4500NO3-H	Nitrate (calc.)
Drinking Water	-- /EPA 353.2 = SM 4500NO3-E = SM 4500NO3-F = ASTM D3867-90A = ASTM D3867-90B	Nitrate (calc.)
Non-Potable Water	-- /EPA 353.2 = EPA 353.3 = SM 4500NO3-E = SM 4500NO3-F = ASTM D3867-90A = ASTM D3867-90B = USGS I-4545-85	Nitrate (calc.)
Drinking Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91 = Waters B-1011	Nitrite
Non-Potable Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91	Nitrite
Non-Potable Water	IC/EPA 9056	Nitrite
Solid & Chemical Materials	IC/EPA 9056	Nitrite
Drinking Water	Color/EPA 353.2 = ASTM D3867-90A	Nitrite
Non-Potable Water	Color/EPA 353.2 = ASTM D3867-90A = USGS I-4545-85	Nitrite
Drinking Water	Color/EPA 354.1 = SM 4500NO2-B = ASTM D3867-90B	Nitrite
Non-Potable Water	Color/EPA 354.1 = SM 4500NO2-B = ASTM D3867-90B = HACH 8507	Nitrite
Drinking Water	Color/SM 4500NO3-E	Nitrite
Non-Potable Water	Color/SM 4500NO3-E	Nitrite
Drinking Water	Color/SM4500NO3-F	Nitrite
Non-Potable Water	Color/SM4500NO3-F	Nitrite
Non-Potable Water	Color/USGS I-4540-85	Nitrite
Solid & Chemical Materials	Filtration/EPA 9095	Paint Filter Liquids Test
Solid & Chemical Materials	Physical Measurements/EPA 9100	Saturated Hydraulic Conductivity
Solid & Chemical Materials	Physical Measurements/EPA 9100	Saturated Leachate Conductivity
Solid & Chemical Materials	Physical Measurements/EPA 9100	Intrinsic Permeability

Matrix**Technology/Method****Analyte/Analyte group***

Drinking Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91 = Waters B-1011	Total Nitrate/Nitrite
Non-Potable Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91	Total Nitrate/Nitrite
Non-Potable Water	IC/EPA 9056	Total Nitrate/Nitrite
Solid & Chemical Materials	IC/EPA 9056	Total Nitrate/Nitrite
Non-Potable Water	Color/EPA 353.1 = SM4500NO3-H	Total Nitrate/Nitrite
Drinking Water	Color/EPA 353.2 = SM4500NO3-F = ASTM D3867-90A	Total Nitrate/Nitrite
Non-Potable Water	Color/EPA 353.2 = SM4500NO3-F = ASTM D3867-90A = USGS I-4545-85	Total Nitrate/Nitrite
Drinking Water	Color/ASTM D3867-90B	Total Nitrate/Nitrite
Non-Potable Water	Color/ASTM D3867-90B	Total Nitrate/Nitrite
Drinking Water	Pot/SM 4500NO3-D + Color/SM 4500NO2-B	Total Nitrate/Nitrite
Drinking Water	Color/SM 4500NO3-E	Total Nitrate/Nitrite
Non-Potable Water	Color/EPA 353.3 = SM 4500NO3-E	Total Nitrate/Nitrite
Non-Potable Water	Extraction/EPA 1311	TCLP
Solid & Chemical Materials	Extraction/EPA 1311	TCLP
Non-Potable Water	Grav/EPA 1664	Non-Polar Material
Drinking Water	Odor/EPA 140.1 = SM 2150B	Odor
Non-Potable Water	Grav/EPA 413.1 = SM 5520B	Oil & Grease
Non-Potable Water	Grav/EPA 1664	Oil & Grease
Non-Potable Water	Grav/EPA 9070	Oil & Grease
Solid & Chemical Materials	Grav/EPA 9070	Oil & Grease
Non-Potable Water	Grav/EPA 9071	Oil & Grease
Solid & Chemical Materials	Grav/EPA 9071	Oil & Grease
Drinking Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91	Orthophosphate
Non-Potable Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91	Orthophosphate
Non-Potable Water	IC/EPA 9056	Orthophosphate
Solid & Chemical Materials	IC/EPA 9056	Orthophosphate
Drinking Water	Color/EPA 365.1 = SM4500P-F = USGS I-2598-85 = USGS I-2601-90	Orthophosphate
Non-Potable Water	Color/EPA 365.1 = SM4500P-F	Orthophosphate
Non-Potable Water	Color/EPA 365.1 = SM4500P-F = USGS I-4600-85	Total Phosphorus
Drinking Water	Color/EPA 365.2 = SM 4500P-E = ASTM D515-88A	Orthophosphate
Non-Potable Water	Color/EPA 365.2 = SM 4500P-E = ASTM D515-88A = USGS I-4601-85 = AOAC 973.55	Orthophosphate
Non-Potable Water	Color/EPA 365.2 = SM 4500P-E = ASTM D515-88A = AOAC 973.55	Total Phosphorus
Drinking Water	Color/EPA 365.3 = USGS I-1602-85	Orthophosphate
Non-Potable Water	Color/EPA 365.3	Orthophosphate
Non-Potable Water	Color/EPA 365.3	Total Phosphorus
Non-Potable Water	Color/AOAC 973.56	Orthophosphate
Non-Potable Water	Color/EPA 365.4 = ASTM D515-88B = AOAC 973.56	Total Phosphorus
Drinking Water	Color/SM4500O3-B	Ozone
Drinking Water	IC/EPA 300.0	Perchlorate
Drinking Water	Pot/EPA 150.1 = SM 4500H+-B = ASTM D1293-95 = HACH 8156	pH
Non-Potable Water	Pot/EPA 150.1 = SM 4500H+-B = ASTM D1293-95 = USGS I-1586-85 = AOAC 973.41 = HACH 8156	pH
Drinking Water	Pot/EPA 150.2	pH
Non-Potable Water	Pot/EPA 150.2	pH
Non-Potable Water	Pot/EPA 9040	pH
Solid & Chemical Materials	Pot/EPA 9040	pH
Non-Potable Water	Pot/EPA 9045	pH
Solid & Chemical Materials	Pot/EPA 9045	pH
Non-Potable Water	Indicator Paper/EPA 9041	pH
Solid & Chemical Materials	Indicator Paper/EPA 9041	pH

Matrix**Technology/Method****Analyte/Analyte group***

Non-Potable Water	Grav/EPA 160.1 = SM 2540C = USGS I-1750-85	Residue, Filterable
Non-Potable Water	Grav/EPA 160.2 = SM 2540D = USGS I-3765-85	Residue, Non-filterable
Non-Potable Water	Grav/EPA 160.3 = SM 2540B = USGS I-3750-85	Residue, Total
Non-Potable Water	Grav/EPA 160.4 = SM 2540E (17 th Ed) = USGS I-3753-85	Residue, Volatile
Non-Potable Water	Grav/EPA 160.5 = SM 2540F	Residue, Settleable
Non-potable Water	Grav/SM 2540G	Residue, Total, Fixed, and Volatile
Non-Potable Water	Cond/SM 2520B	Salinity
Non-Potable Water	Density/SM 2520C	Salinity
Drinking Water	Color/EPA 370.1 = SM 4500Si-D = USGS I-1700-85 = ASTM D859-94	Silica
Non-Potable Water	Color/EPA 370.1 = SM 4500Si-D = USGS I-1700-85 = ASTM D859-94	Silica
Drinking Water	Color/SM 4500Si-E	Silica
Drinking Water	Color/SM 4500Si-F = USGS I-2700-85	Silica
Non-Potable Water	Color/USGS I-2700-85	Silica
Drinking Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91	Sulfate
Non-Potable Water	IC/EPA 300.0 = SM 4110B = ASTM D4327-91	Sulfate
Non-Potable Water	IC/EPA 9056	Sulfate
Solid & Chemical Materials	IC/EPA 9056	Sulfate
Drinking Water	Color/EPA 375.1	Sulfate
Non-Potable Water	Color/EPA 375.1	Sulfate
Drinking Water	Color/EPA 375.2 = SM4500SO4-F	Sulfate
Non-Potable Water	Color/EPA 375.2	Sulfate
Non-Potable Water	Color/EPA 9035	Sulfate
Solid & Chemical Materials	Color/EPA 9035	Sulfate
Non-Potable Water	Color/EPA 9036	Sulfate
Solid & Chemical Materials	Color/EPA 9036	Sulfate
Drinking Water	Grav/SM 4500SO4-C = SM 4500SO4-D	Sulfate
Non-Potable Water	Grav/EPA 375.3 = SM 4500SO4-C = SM 4500SO4-D = AOAC 925.54	Sulfate
Drinking Water	Nephelometry/EPA 375.4 = SM4500SO4-E = ASTM D516-90	Sulfate
Non-Potable Water	Nephelometry/EPA 375.4 = SM426C(15 th Ed.) = ASTM D516-90	Sulfate
Non-Potable Water	Nephelometry/EPA 9038	Sulfate
Solid & Chemical Materials	Nephelometry/EPA 9038	Sulfate
Non-Potable Water	Distillation/EPA 9030	Sulfide (Preliminary distillation)
Solid & Chemical Materials	Distillation/EPA 9030	Sulfide (Preliminary distillation)
Non-Potable Water	Distillation/EPA 9030 + Pot/EPA 9215	Sulfide
Solid & Chemical Materials	Distillation/EPA 9030 + Pot/EPA 9215	Sulfide
Non-Potable Water	Titration/EPA 376.1 = SM 4500S-E = USGS I-3840-85	Sulfide
Non-Potable Water	Color/EPA 376.2 = SM 4500S-D	Sulfide
Non-Potable Water	Distillation/EPA 9030 + Titration/EPA 9034	Sulfides (Total)
Solid & Chemical Materials	Distillation/EPA 9030 + Titration/EPA 9034	Sulfides (Total)
Non-Potable Water	Titration/EPA 9031	Sulfides (Purgeable)
Solid & Chemical Materials	Titration/EPA 9031	Sulfides (Purgeable)
Non-Potable Water	Titration/EPA 377.1 = SM 4500SO3-B	Sulfite
Drinking Water	Color/EPA 425.1 = SM 5540C	Surfactants
Non-Potable Water	Color/EPA 425.1 = SM 5540C = ASTM D2330-88	Surfactants
Non-Potable Water	Extraction/EPA 1312	Synthetic Precip. Leaching Proc.
Solid & Chemical Materials	Extraction/EPA 1312	Synthetic Precip. Leaching Proc.
Non-Potable Water	Color/SM 5550B	Tannin & Lignin
Drinking Water	Thermometry/SM 2550B	Temperature
Non-Potable Water	Thermometry/EPA 170.1 = SM 2550B	Temperature
Drinking Water	Grav/EPA 160.1 = SM 2540C	Total Dissolved Solids

Matrix**Technology/Method****Analyte/Analyte group***

Drinking Water
Non-Potable Water

IR/EPA 415.1 = SM 5310B
IR/EPA 415.1 = SM 5310B = ASTM D2579-93
= AOAC 973.47

Total Organic Carbon (TOC)
Total Organic Carbon (TOC)

Drinking Water
Non-Potable Water
Drinking Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials

IR/SM 5310C
IR/SM 5310C
IR/SM 5310D
IR/SM 5310D
FID or IR/EPA 9060
FID or IR/EPA 9060

Total Organic Carbon (TOC)
Total Organic Carbon (TOC)
Total Organic Carbon (TOC)
Total Organic Carbon (TOC)
Total Organic Carbon (TOC)
Total Organic Carbon (TOC)

Drinking Water
Drinking Water
Drinking Water

IR/SM 5310B
IR/SM 5310C
IR/SM 5310D

Dissolved Organic Carbon (DOC)
Dissolved Organic Carbon (DOC)
Dissolved Organic Carbon (DOC)

Drinking Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials
Non-Potable Water
Solid & Chemical Materials
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials
Non-Potable Water
Solid & Chemical Materials

Coulometric titrimetry/SM 5320B
Coulometric titrimetry/SM 5320B
Coulometric titrimetry/EPA 9020
Coulometric titrimetry/EPA 9020
NAA/EPA 9022
NAA/EPA 9022
Coulometric titrimetry/EPA 1650
Coulometric titrimetry/EPA 9023
Coulometric titrimetry/EPA 9023
Coulometric titrimetry/EPA 9021
Coulometric titrimetry/EPA 9021

Total Organic Halogen (TOX)
Total Organic Halogen (TOX)
Total Organic Halogen (TOX)
Total Organic Halogen (TOX)
Total Organic Halogen (TOX)
Total Organic Halogen (TOX)
Adsorbable Organic Halogens (AOX)
Extractable Organic Halides (EOX)
Extractable Organic Halides (EOX)
Purgeable Organic Halides (POX)
Purgeable Organic Halides (POX)

Non-Potable Water
Non-Potable Water
Non-Potable Water
Solid & Chemical Materials
Non-Potable Water
Solid & Chemical Materials
Non-Potable Water
Solid & Chemical Materials

Color/EPA 420.1
Color/EPA 420.2
Color/EPA 9065
Color/EPA 9065
Color/EPA 9066
Color/EPA 9066
Color/EPA 9067
Color/EPA 9067

Total Phenols
Total Phenols
Total Phenols
Total Phenols
Total Phenols
Total Phenols
Total Phenols
Total Phenols

Non-Potable Water
Non-Potable Water
Solid & Chemical Materials

IR/EPA 418.1
IR/EPA 8440
IR/EPA 8440

Total Recoverable Pet. Hydrocarbons
Total Recoverable Pet. Hydrocarbons
Total Recoverable Pet. Hydrocarbons

Drinking Water
Non-Potable Water

Nephelometry/EPA 180.1 = SM 2130B = HACH 8195
Nephelometry/EPA 180.1 = SM 2130B
= ASTM D1889-88A = USGS I-3860-85

Turbidity
Turbidity

Drinking Water

Color/SM 5910B

UV254

Fields of Accreditation - Extraction, Digestion and Preparation

Fields of Accreditation (Matrix – Technology/Method – Analyte/Analyte group) listed below are based on those currently offered by NELAP Accrediting Authorities, and may not be a complete listing. EPA and state regulations limit the application of specific methods to specific matrices.

Accrediting Authorities may deem methods equivalent as indicated (“=”) in the table.

*The specific analytes in an analyte group are yet to be defined.

DRAFT

Matrix	Technology/Method	Analyte/Analyte Group*
Solid & Chemical Materials	Bomb Preparation Methods for Chlorine by IC or Titration	EPA 5050 Inorganics
Solid & Chemical Materials	Cyanide Extraction Procedures	EPA 9013 Inorganics
Solid & Chemical Materials	Mobile Metal Concentration of Oily Wastes	EPA 1330A Metals
Non-Potable Water	Preconcentration under Acid for FLAA or ICP	EPA 3005A = SM 3030F Metals
Non-Potable Water	Hot Plate Acid Digestion (HNO ₃ + HCl) for FLAA or ICP	EPA 3010A = SM 3030F Metals
Non-Potable Water	Preparation for Acid Soluble Metals (HNO ₃ only or HNO ₃ + HCl) for FLAA, ICP, or GFAA	EPA 200.1 Metals
Potable, Non-Potable Water and Solid & Chemical Materials	Hot Plate Acid Digestion (HNO ₃ + HCl) for FLAA or ICP	EPA 200.2 Metals
Non-Potable Water	Microwave Acid Digestion for FLAA, GFAA, ICP, or ICP/MS	EPA 3015 = SM 3030K Metals
Non-Potable Water	Hot Plate Acid Digestion (HNO ₃ only) for GFAA	EPA 3020A = SM 3030E Metals
Solid & Chemical Materials	Permanganate Digestion of Oils for FLAA or ICP	EPA 3031 Metals
Solid & Chemical Materials	Dissolution of Oils, Greases and Waxes with Organic Solvent for AAS or ICP	EPA 3040A Metals
Solid & Chemical Materials	Acid Digestion for FLAA, ICP, GFAA, or ICP/MS	EPA 3050B = SM 3030 E&F Metals
Solid & Chemical Materials	Microwave Digestion (HNO ₃ only) for FLAA, CVAAS, GFAAS, ICP, or ICP/MS	EPA 3051 Metals
Solid & Chemical Materials	Microwave Digestion (HNO ₃ + HF) for FLAA, GFAA, ICP, ICP/MS	EPA 3052 Metals
Solid & Chemical Materials	Alkaline Digestion for Cr(VI)	EPA 3060A Metals
Non-Potable Water	Filtration for Dissolved and Suspended Metals	SM 3030B Metals
Non-Potable Water	Treatment for Acid-Extractable Metals	SM 3030C Metals
Non-Potable Water	Nitric Acid-Sulfuric Acid Digestion	SM 3030G Metals
Non-Potable Water	Nitric Acid-Perchloric Acid Digestion	SM 3030H Metals
Non-Potable Water	Nitric Acid-Perchloric Acid-Hydrofluoric Acid Digestion	SM 3030I Metals
Solid & Chemical Materials	EP-TOX Extraction	EPA 1310A Metals, Volatile Organics and Semivolatile Organics
Solid & Chemical Materials	Toxicity Characterization Leaching Procedure	EPA 1311 Metals, Volatile Organics and Semivolatile Organics
Solid & Chemical Materials	Synthetic Precipitation Leaching Procedure	EPA 1312 Metals, Volatile Organics and Semivolatile Organics
Solid & Chemical Materials	Multiple Extraction Procedure	EPA 1320 Metals, Volatile Organics and Semivolatile Organics
Non-Potable Water	Organic Extraction and Sample Preparation - Method Selection	EPA 3500B Semivolatile Organics
Non-Potable Water	Separatory Funnel Liquid-Liquid Extraction	EPA 3510C Semivolatile Organics
Non-Potable Water	Continuous Liquid-Liquid Extraction	EPA 3520C Semivolatile Organics
Non-Potable Water	Solid Phase Extraction	EPA 3535 Semivolatile Organics
Solid & Chemical Materials	Soxhlet Extraction	EPA 3540C Semivolatile Organics
Solid & Chemical Materials	Automated Soxhlet Extraction	EPA 3541 Semivolatile Organics
Solid & Chemical Materials	Extraction of Semivolatile Analytes from Sample Collected by Method 0010 for GC/MS, HPLC or HPLC/MS	EPA 3542 Semivolatile Organics
Solid & Chemical Materials	Pressurized Fluid Extraction	EPA 3545 Semivolatile Organics
Solid & Chemical Materials	Ultrasonic Extraction	EPA 3550B Semivolatile Organics
Solid & Chemical Materials	Supercritical Fluid Extraction of Total Recoverable Petroleum Hydrocarbons	EPA 3560 Semivolatile Organics
Solid & Chemical Materials	Supercritical Fluid Extraction of Polynuclear Aromatic Hydrocarbons	EPA 3561 Semivolatile Organics

Fields of Accreditation - Extraction, Digestion and Preparation

Fields of Accreditation (Matrix – Technology/Method – Analyte/Analyte group) listed below are based on those currently offered by NELAP Accrediting Authorities, and may not be a complete listing. EPA and state regulations limit the application of specific methods to specific matrices.

Accrediting Authorities may deem methods equivalent as indicated (“=”) in the table.

*The specific analytes in an analyte group are yet to be defined.

DRAFT

Matrix	Technology/Method	Analyte/Analyte Group*
Solid & Chemical Materials	Waste Dilution	EPA 3580A Semivolatile Organics
Solid & Chemical Materials	Waste Dilution for Volatile Organics	EPA 3585 Semivolatile Organics
Extracts	Alumina Cleanup	EPA 3610B Semivolatile Organics
Extracts	Alumina Cleanup and Separation	EPA 3611B Semivolatile Organics
Extracts	Florisil Cleanup	EPA 3620B Semivolatile Organics
Extracts	Silica Gel Cleanup	EPA 3630C Semivolatile Organics
Extracts	Gel-Permeation Cleanup	EPA 3640A Semivolatile Organics
Extracts	Acid-Base Partition Cleanup	EPA 3650B Semivolatile Organics
Extracts	Sulfur Cleanup	EPA 3660B Semivolatile Organics
Extracts	Sulfuric Acid - Permanganate Cleanup	EPA 3665A Semivolatile Organics
Solid & Chemical Materials and Non-Potable Water	Headspace	EPA 3810 Volatile Organics
Solid & Chemical Materials and Non-Potable Water	Hexadecane Extraction and Screening of Purgeable Organics	EPA 3820 Volatile Organics
Air	Sample Preparation for Volatile Organic Compounds	EPA 5000 Volatile Organics
Solid & Chemical Materials	Volatile Organic Compounds using Equilibrium Headspace Analysis	EPA 5021 Volatile Organics
Solid & Chemical Materials and Non-Potable Water	Purge and Trap	EPA 5030B Volatile Organics
Non-Potable Water	Volatile, Nonpurgeable, Water Soluble Compounds by Azeotropic Distillation	EPA 5031 Volatile Organics
Air	Volatile Organic Compounds by Vacuum Distillation	EPA 5032 Volatile Organics
Solid & Chemical Materials	Closed System Purge and Trap	EPA 5035 Volatile Organics
Solid & Chemical Materials	Analysis for Desorption of Sorbent Cartridges from Volatile Organic Sampling Train	EPA 5041A Volatile Organics
Solid & Chemical Materials	Thermal Extraction for PCBs and PAHs by GC/MS	EPA 8275A Semivolatile Organics